

Title (en)  
Monitoring hydrocarbon fluid flow

Title (de)  
Überwachung eines Kohlenwasserstoffflüssigkeitsflusses

Title (fr)  
Surveillance d'écoulement de fluide d'hydrocarbure

Publication  
**EP 2522997 A1 20121114 (EN)**

Application  
**EP 11166092 A 20110513**

Priority  
EP 11166092 A 20110513

Abstract (en)  
A tree (1) for a subsea hydrocarbon extraction facility is provided with means for monitoring a plurality of different properties relating to hydrocarbon fluid flow through a pipeline (4) at the tree. A plurality of sensing means (13, 14, 15, 16, 17, 18) are provided, each for monitoring at least one of said properties, each of them being located at or near a position which is optimum for monitoring the at least one of the properties having regard to the configuration of the pipeline.

IPC 8 full level  
**G01N 33/28** (2006.01); **E21B 33/035** (2006.01); **E21B 34/04** (2006.01); **E21B 43/12** (2006.01)

CPC (source: EP US)  
**E21B 47/001** (2020.05 - EP US); **G01N 33/2823** (2013.01 - EP US)

Citation (search report)

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- [Y] WO 2009136950 A1 20091112 - FMC TECHNOLOGIES [US], et al
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2522997 A1 20121114**; **EP 2522997 B1 20140129**; AU 2012202785 A1 20121129; AU 2012202785 B2 20161201;  
BR 102012011179 A2 20131105; BR 102012011179 B1 20200526; CN 102777168 A 20121114; MY 158737 A 20161115;  
SG 185891 A1 20121228; US 2013126180 A1 20130523; US 9435189 B2 20160906

DOCDB simple family (application)  
**EP 11166092 A 20110513**; AU 2012202785 A 20120511; BR 102012011179 A 20120511; CN 201210147230 A 20120514;  
MY PI2012002062 A 20120510; SG 2012034633 A 20120511; US 201213469898 A 20120511